

**Abstract**

A system time thresholds dwells executed by an  
electromagnetic signal receiver. The system includes a  
detection module and a processing module. The detection  
5 module receives electromagnetic signals from a surrounding  
environment. The electromagnetic signals are  
chronologically segregated into a plurality of dwells each  
with a dwell time. The processing module controls the  
scanning of the surrounding environment. The processing  
10 module sets dwell parameters and determines whether to  
skip the execution of particular dwells. The processing  
module receives data about the signals from the detection  
module.